L Number	Hits	Search Text	DB	Time stamp
1	147	(ald or cvd) and deposit$3 and valve	JPO	2002/12/05 12:36
2	1523	(ald or cvd) and deposit$3 and (valve same wall)	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2002/12/05 12:39
8	888	valve and (118/715.ccls. or 156/345.33.ccls.)	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2002/12/05 12:38
14	1349	((ald or cvd) and deposit$3 and (valve same wall)) not (valve and (118/715.ccls. or 156/345.33.ccls.))	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2002/12/05 12:38
26	189	(ald or cvd) and deposit$3 and ((valve and actuator) same wall)	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2002/12/05 12:40
20	43	(valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2002/12/05 13:16
32	186	((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2002/12/05 13:07
38	5541	((gate or door) same gas) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2002/12/05 14:24
44	54	((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2002/12/05 13:37
50	40	(actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))))	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2002/12/05 13:30
56	4	((gate or door) with (gas and spring)) and (ald or cvd) not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))))))	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2002/12/05 13:44
62	58	251/$.ccls. and (CVD or AVD)	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2002/12/05 13:49

68	.	4	(("4798227") or ("4776564") or ("4214730") or ("4212317")).PN.	USPAT	2002/12/05 13:55
69		8	(("5558717") or ("5363872") or ("4687017") or ("4447707") or ("3818930") or ("3605795") or ("3178913") or ("3110319")).PN.	USPAT	2002/12/05 13:55
70	.	682	((gate or door) with (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))))) or (((gate or door) with (gas and spring)) and (ald or cvd) not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))))))) or (251/$.ccls. and (CVD or AVD)))	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2002/12/05 14:26
76		126	(((gate or door) with (gas and wall)) same valve) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))))) or (((gate or door) with (gas and spring)) and (ald or cvd) not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))))))) or (251/$.ccls. and (CVD or AVD)))	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2002/12/05 14:40

| 82 | 556 | (((gate or door) with (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))))) or (((gate or door) with (gas and spring)) and (ald or cvd) not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))))))) or (251/$.ccls. and (CVD or AVD)))) not ((((gate or door) with (gas and wall)) same valve) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))))) or (((gate or door) with (gas and spring)) and (ald or cvd) not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))))) or (251/$.ccls. and (CVD or AVD)))) | USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB | 2002/12/05 14:38 |

| 88 | . | 17 | ((piston with (gas and wall))) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))) or (((gate or door) with (gas and spring)) and (ald or cvd) not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))))))) or (251/$.ccls. and (CVD or AVD)) or ((((gate or door) with (gas and wall)) same valve) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))))) or (((gate or door) with (gas and spring)) and (ald or cvd) not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))))))) or (251/$.ccls. and (CVD or AVD))))) | USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB | 2002/12/05 14:43 |

| 94 | . | 9 | ((piston same (gas and wall))) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))))) or (((gate or door) with (gas and spring)) and (ald or cvd) not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))))))) or (251/$.ccls. and (CVD or AVD)) or ((((gate or door) with (gas and wall)) same valve) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))))) or (((gate or door) with (gas and spring)) and (ald or cvd) not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))))))) or (251/$.ccls. and (CVD or AVD)))) or (((piston with (gas and wall))) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))))) or (((gate or door) with (gas and spring)) and (ald or cvd) not (((valve same actuator) and (118/715.ccls. or | USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB | 2002/12/05 15:16 |

| 100 | . 7066 | ((piston and valve) same (gas and wall)) not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))))) or (((gate or door) with (gas and spring)) and (ald or cvd) not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))))) or (251/$.ccls. and (CVD or AVD)) or ((((gate or door) with (gas and wall)) same valve) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))))) or (((gate or door) with (gas and spring)) and (ald or cvd) not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))))))) or (251/$.ccls. and (CVD or AVD)))) or (((piston with (gas and wall))) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) | USPAT;
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and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))) or (((gate or door) with (gas and spring)) and (ald or cvd) not (((valve same actuator)

| 106 | 7066 | ((piston and valve) same (gas and wall)) not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))))) or (((gate or door) with (gas and spring)) and (ald or cvd) not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))))))) or (251/$.ccls. and (CVD or AVD)) or ((((gate or door) with (gas and wall)) same valve) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))))) or (((gate or door) with (gas and spring)) and (ald or cvd) not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))))))) or (251/$.ccls. and (CVD or AVD)))) or (((piston with (gas and wall))) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) | USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB | 2002/12/05 15:28 |

and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))) or (((gate or door) with (gas and spring)) and (ald or cvd) not (((valve same actuator)

| 112 | . | 152 | ((piston and valve) same (gas and wall and flush)) not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))))) or (((gate or door) with (gas and spring)) and (ald or cvd) not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))))))) or (251/$.ccls. and (CVD or AVD)) or ((((gate or door) with (gas and wall)) same valve) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))))) or (((gate or door) with (gas and spring)) and (ald or cvd) not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))))) or (251/$.ccls. and (CVD or AVD)))) or (((piston with (gas and wall))) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) | USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB | 2002/12/05 15:26 |

and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))) or (((gate or door) with (gas and spring)) and (ald or cvd) not (((valve same actuator)

| 118 | 6278 | (((piston and valve) same (gas and wall)) not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))))) or (((gate or door) with (gas and spring)) and (ald or cvd) not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))))))) or (251/$.ccls. and (CVD or AVD)) or ((((gate or door) with (gas and wall)) same valve) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))))) or (((gate or door) with (gas and spring)) and (ald or cvd) not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))))))) or (251/$.ccls. and (CVD or AVD)))) or (((piston with (gas and wall))) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) | USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB | 2002/12/05 15:32 |

and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))) or (((gate or door) with (gas and spring)) and (ald or cvd) not (((valve same actuator)

| 124 | . | 428 | ((((piston and valve) same (gas and wall)) not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))))) or (((gate or door) with (gas and spring)) and (ald or cvd) not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))))))) or (251/$.ccls. and (CVD or AVD)) or ((((gate or door) with (gas and wall)) same valve) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))))) or (((gate or door) with (gas and spring)) and (ald or cvd) not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))))))) or (251/$.ccls. and (CVD or AVD)))) or (((piston with (gas and wall))) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or (((gate or door) with (gas and spring)) and (ald or cvd) not (((valve same actuator) | USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB | 2002/12/05 15:36 |

| 130 | . | 5583 | (valve same (wall and flush)) not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))))) or (((gate or door) with (gas and spring)) and (ald or cvd) not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))))))) or (251/$.ccls. and (CVD or AVD)) or ((((gate or door) with (gas and wall)) same valve) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))))) or (((gate or door) with (gas and spring)) and (ald or cvd) not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))))) or (251/$.ccls. and (CVD or AVD)))) or (((piston with (gas and wall))) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and | USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB | 2002/12/05 15:29 |

deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))) or (((gate or door) with (gas and spring)) and (ald or cvd) not (((valve same actuator) and

| 136 | 4378 | ((valve same (wall and flush)) not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))) or (((gate or door) with (gas and spring)) and (ald or cvd) not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))))) or (251/$.ccls. and (CVD or AVD)) or ((((gate or door) with (gas and wall)) same valve) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))) or (((gate or door) with (gas and spring)) and (ald or cvd) not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((actuator same (gas and wall)) and (ald or cvd) and 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| 142 | 506 | (((valve same (wall and flush)) not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit$3 and ((valve and 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